SEQUENCE LISTING

<110> KOMORIYA, AKIRA
PACKARD, BEVERLY S.

<120> HOMO-DOUBLY LABELED COMPOSITIONS FOR THE DETECTION OF ENZYME ACTIVITY IN BIOLOGICAL SAMPLES

<130> 300-948600US

<140> 09/747,287
<141> 2000-12-22

<150> US 09/349,019
<151> 1999-09-10

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<151> 1997-02-20

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<151> 2000-09-11

<160> 246

<170> PatentIn version 3.3

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<400> 44

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1 5 10

<210> 45
<211> 12
<212> PRT
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<400> 45

Lys Asp Ala Ile Pro Met Ser Ile Pro Lys Gly Tyr
1 5 10

<210> 46
<211> 14
<212> PRT

<213> Artificial

<220>
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<220>
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<400> 46

Lys Asp Ala Ile Pro Xaa Ala Ala Ser Ile Pro Lys Gly Tyr
1 5 10

<210> 47
<211> 16
<212> PRT
<213> Artificial

<220>
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<400> 47

Lys Asp Asx Gly Asp Glu Val Asp Gly Ile Asp Gly Pro Lys Gly Tyr
1 5 10 15

<210> 48
<211> 17
<212> PRT
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<220>
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<223> Xaa is episilon-aminocaproic acid

<400> 48

Lys Asp Asx Xaa Gly Asp Glu Val Asp Gly Ile Asp Gly Pro Lys Gly
1 5 10 15

Tyr

<210> 49
<211> 17

<212> PRT
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<220>
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<400> 49

Lys Asp Asx Xaa Gly Asp Glu Val Asp Gly Ile Asp Gly Pro Lys Gly
1 5 10 15

Tyr

<210> 50
<211> 13
<212> PRT
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<220>
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<400> 50

Lys Asp Tyr Asx Ala Asp Gly Ile Asp Pro Lys Gly Tyr
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<210> 51
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<220>
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<400> 51

Lys Asp Pro Xaa Gly Asp Glu Val Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 52
<211> 16
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<220>
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<223> K is blocked with amide

<400> 52

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1 5 10 15

<210> 53
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<223> Xaa is tetrahydroisoquinoline-3-carboxylic acid.

<220>
<221> misc_feature
<222> (15)..(15)
<223> Xaa is episilon-aminocaproic acid

<400> 53

Lys Asp Pro Xaa Gly Xaa Asp Glu Val Asp Gly Ile Asn Gly Xaa Pro
1 5 10 15

Lys Gly Tyr

<210> 54
<211> 17
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<220>
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<220>
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<223> Xaa is episilon-aminocaproic acid

<400> 54

Lys Asp Pro Xaa Gly Asp Glu Val Asp Gly Ile Asn Gly Pro Lys Gly
1 5 10 15

Tyr

<210> 55
<211> 17
<212> PRT
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<220>
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<223> Xaa is episilon-aminocaproic acid

<400> 55

Lys Asp Pro Gly Asp Glu Val Asp Gly Ile Asn Gly Xaa Pro Lys Gly
1 5 10 15

Tyr

<210> 56
<211> 16
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<222> (14)..(14)
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<220>
<221> misc_feature
<222> (16)..(16)
<223> K is blocked with amide

<400> 56

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<210> 57
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<222> (14)..(14)
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<400> 57

Lys Asp Pro Xaa Gly Glu Glu Val Glu Gly Ile Asn Gly Xaa Pro Lys
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Gly Tyr

<210> 58
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<223> Xaa is episilon-aminocaproic acid

<400> 58

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1 5 10 15

Gly Tyr

<210> 59
<211> 18
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<223> Xaa is episilon-aminocaproic acid

<400> 59

Lys Asp Pro Xaa Gly Xaa Glu Val Xaa Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 60
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<400> 60

Lys Asp Pro Xaa Gly Asp Glu Val Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 61
<211> 18
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<400> 61

Lys Asp Asx Xaa Gly Asp Glu Val Asn Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 62
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<220>
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<400> 62

Lys Asp Asx Xaa Gly Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro Lys
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Gly Tyr

<210> 63
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<400> 63

Lys Asp Asx Xaa Gly Asp Glu Val Asp Gly Ile Asn Gly Xaa Pro Lys
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Gly Tyr

<210> 64
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<400> 64

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1 5 10 15

Gly Tyr

<210> 65
<211> 19

<212> PRT
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<400> 65

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1 5 10 15

Lys Gly Tyr

<210> 66
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<220>
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<400> 66

Lys Asp Asx Xaa Gly Asn Glu Val Asp Gly Ile Asp Gly Xaa Pro Lys
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Gly Tyr

<210> 67

<211> 18
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<400> 67

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Gly Tyr

<210> 68
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<400> 68

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Gly Tyr

<210> 69
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<400> 69

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Gly Tyr

<210> 70
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<400> 70

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1 5 10 15

Gly Tyr

<210> 71
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<400> 71

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1 5 10 15

Lys Gly Lys

<210> 72
<211> 19
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<220>
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<400> 72

Lys Asp Asx Xaa Gly Xaa Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro
1 5 10 15

Lys Gly Tyr

<210> 73
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<223> Xaa can be any naturally occurring amino acid

<400> 73

Lys Asp Asx Xaa Gly Trp Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro
1 5 10 15

Lys Gly Tyr

<210> 74
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<400> 74

Lys Asp Asx Xaa Gly Xaa Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro
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Lys Gly Tyr

<210> 75
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<400> 75

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Pro Lys Gly Tyr
20

<210> 76
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<400> 76

Lys Asp Asx Xaa Gly Xaa Xaa Asp Glu Val Asp Gly Ile Asp Gly Xaa
1 5 10 15

Pro Lys Gly Tyr
20

<210> 77
<211> 14
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<400> 77

Lys Asp Asx Tyr Val Ala Asp Gly Ile Asp Pro Lys Gly Tyr
1 5 10

<210> 78
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<400> 78

Lys Asp Asx Tyr Val Ala Asp Gly Ile Asn Pro Lys Gly Tyr
1 5 10

<210> 79
<211> 14
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<400> 79

Lys Asp Asx Tyr Val Ala Asn Gly Ile Asn Pro Lys Gly Tyr
1 5 10

<210> 80
<211> 16
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<400> 80

Lys Asp Asx Gly Tyr Val Ala Asp Gly Ile Asp Gly Pro Lys Gly Tyr
1 5 10 15

<210> 81
<211> 16
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<400> 81

Lys Asp Asx Gly Tyr Val Ala Asp Gly Ile Asn Gly Pro Lys Gly Tyr
1 5 10 15

<210> 82
<211> 16
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<400> 82

Lys Asp Asx Gly Tyr Val Ala Asn Gly Ile Asn Gly Pro Lys Gly Tyr
1 5 10 15

<210> 83
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<400> 83

Lys Asp Asx Xaa Gly Tyr Val Ala Asp Gly Ile Asp Gly Xaa Pro Lys
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Gly Tyr

<210> 84
<211> 18
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<400> 84

Lys Asp Asx Xaa Gly Tyr Val Ala Asn Gly Ile Asp Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 85
<211> 18
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Lys Asp Asx Xaa Gly Tyr Val Ala Asn Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 86
<211> 18
<212> PRT
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<400> 86

Lys Asp Asx Xaa Gly Tyr Val Ala Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 87
<211> 18
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<400> 87

Lys Asp Asx Xaa Gly Xaa Val Ala Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 88
<211> 14
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<220>
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<400> 88

Lys Asp Asx Tyr Val His Asp Ala Pro Val Pro Lys Gly Tyr
1 5 10

<210> 89
<211> 14
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<220>
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<400> 89

Lys Asp Asx Tyr Val His Asp Ala Pro Val Pro Lys Gly Tyr
1 5 10

<210> 90
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<400> 90

Lys Asp Asx Tyr Val His Asp Ala Pro Val Pro Lys Gly Tyr
1 5 10

<210> 91
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<400> 91

Lys Asp Asx Gly Tyr Val His Asp Ala Pro Val Gly Pro Lys Gly Tyr
1 5 10 15

<210> 92
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<400> 92

Lys Asp Asx Gly Tyr Val His Asp Ala Pro Val Gly Pro Lys Gly Tyr
1 5 10 15

<210> 93
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<400> 93

Lys Asp Asx Gly Tyr Val His Asp Ala Pro Val Gly Pro Lys Gly Tyr
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<210> 94
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<400> 94

Lys Asp Asx Xaa Gly Tyr Val His Asp Ala Pro Val Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 95
<211> 18
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<400> 95

Lys Asp Asx Xaa Gly Tyr Val His Asp Ala Pro Val Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 96
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<400> 96

Lys Asp Asx Xaa Gly Tyr Val His Asp Ala Pro Val Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 97
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Lys Asp Asx Xaa Gly Tyr Val His Asp Ala Pro Val Gly Xaa Pro Lys
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Gly Tyr

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<400> 98

Lys Asp Asx Xaa Gly Tyr Val His Asp Ala Pro Val Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 99
<211> 18
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<400> 99

Lys Asp Asx Xaa Gly Xaa Val His Asp Ala Pro Val Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 100
<211> 17
<212> PRT
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<400> 100

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Tyr

<210> 101
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Tyr

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Gly Tyr

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Tyr

<210> 110
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Tyr

<210> 111
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Tyr

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Tyr

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Lys Gly Tyr

<210> 117
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Lys Gly Tyr

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Tyr

<210> 119
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1 5 10 15

Lys Gly Tyr

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Lys Gly Tyr

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Gly Tyr

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Lys Gly Tyr

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Lys Gly Tyr

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Tyr

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<222> (4)..(4)
<223> Xaa is episilon-aminocaproic acid

<220>
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<400> 159

Lys Asp Pro Xaa Gly Thr Gly Arg Thr Gly Xaa Pro Lys Gly Tyr
1 5 10 15

<210> 160
<211> 14
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<220>
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<220>
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<222> (4)..(4)
<223> Xaa is episilon-aminocaproic acid

<400> 160

Lys Asp Pro Xaa Gly Thr Gly Arg Thr Gly Pro Lys Gly Tyr
1 5 10

<210> 161
<211> 13
<212> PRT
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<220>
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<400> 161

Lys Asp Pro Gly Thr Gly Arg Thr Gly Pro Lys Gly Tyr
1 5 10

<210> 162
<211> 14
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<220>
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<220>
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<222> (4)..(4)
<223> Xaa is episilon-aminocaproic acid

<400> 162

Lys Asp Pro Xaa Thr Gly Arg Thr Gly Xaa Pro Lys Gly Tyr
1 5 10

<210> 163
<211> 13
<212> PRT
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<220>
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<220>
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<223> Xaa is 4-aminobutyric acid

<400> 163

Lys Asp Pro Xaa Thr Gly Arg Thr Gly Pro Lys Gly Tyr
1 5 10

<210> 164
<211> 13
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<220>
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<223> Xaa is 8-aminocaprylic acid

<400> 164

Lys Asp Pro Xaa Thr Gly Arg Thr Gly Pro Lys Gly Tyr
1 5 10

<210> 165
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<223> Xaa is 8-aminocaprylic acid

<220>
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<222> (13)..(13)
<223> Xaa is 8-aminocaprylic acid

<400> 165

Lys Asp Asx Xaa Gly Val Met Thr Gly Arg Val Gly Xaa Pro Lys Gly
1 5 10 15

Tyr

<210> 166

<211> 17
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<223> Xaa can be any naturally occurring amino acid

<220>
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<223> Xaa is episilon-aminocaproic acid

<400> 166

Lys Asp Asx Xaa Gly Val Xaa Thr Gly Arg Val Gly Xaa Pro Lys Gly
1 5 10 15

Tyr

<210> 167
<211> 17
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<220>
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<222> (13)..(13)
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<400> 167

Lys Asp Asx Xaa Gly Val Met Thr Gly Arg Ala Gly Xaa Pro Lys Gly
1 5 10 15

Tyr

<210> 168
<211> 17
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<220>
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<222> (13)..(13)
<223> Xaa is episilon-aminocaproic acid

<400> 168

Lys Asp Asx Xaa Gly Val Xaa Thr Gly Arg Ala Gly Xaa Pro Lys Gly
1 5 10 15

Tyr

<210> 169
<211> 26
<212> PRT
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<223> Xaa can be any naturally occurring amino acid

<220>
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<222> (22)..(22)
<223> Xaa is episilon-aminocaproic acid

<400> 169

Lys Asp Pro Xaa Gly Ser Glu Val Lys Leu Asp Ala Glu Phe Gly Xaa
1 5 10 15

Pro Lys Gly Tyr Gly Xaa Pro Lys Gly Tyr
20 25

<210> 170
<211> 20
<212> PRT
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<220>
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<222> (7)..(7)
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<222> (10)..(10)
<223> Xaa is D form Leu

<220>
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<222> (14)..(14)
<223> Xaa is D form Phe

<220>
<221> misc_feature
<222> (16)..(16)
<223> Xaa is episilon-aminocaproic acid

<400> 170

Lys Asp Pro Xaa Gly Ser Xaa Val Lys Xaa Asp Ala Glu Xaa Gly Xaa
1 5 10 15

Pro Lys Gly Tyr

<210> 171
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<223> Xaa is D form Leu

<220>
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<222> (14)..(14)
<223> Xaa is D form Phe

<220>
<221> misc_feature
<222> (16)..(16)
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<400> 171

Lys Asp Pro Xaa Gly Ser Xaa Val Lys Xaa Asp Ala Glu Xaa Gly Xaa
1 5 10 15

Pro Lys Gly Tyr
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<210> 172
<211> 21
<212> PRT
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<220>
<223> Synthetic peptide.

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<220>
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<222> (16)..(16)
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<400> 172

Lys Asp Asx Xaa Gly Ser Glu Val Asn Leu Asp Ala Glu Phe Gly Xaa
1 5 10 15

Pro Lys Asp Asp Tyr
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<210> 173
<211> 21
<212> PRT
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<220>
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<222> (16)..(16)
<223> Xaa is episilon-aminocaproic acid

<400> 173

Lys Asp Asx Xaa Gly Ser Glu Val Asn Leu Asp Ala Glu Phe Gly Xaa
1 5 10 15

Pro Lys Asp Asp Tyr
20

<210> 174
<211> 21
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<220>
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<220>
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<222> (16)..(16)
<223> Xaa is episilon-aminocaproic acid

<400> 174

Lys Asp Asx Xaa Gly Ser Glu Val Lys Leu Asp Ala Glu Phe Gly Xaa
1 5 10 15

Pro Lys Asp Asp Tyr
20

<210> 175
<211> 21
<212> PRT
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<220>
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<222> (16)..(16)
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<400> 175

Lys Asp Asx Xaa Gly Ser Glu Val Lys Met Asp Ala Glu Phe Gly Xaa
1 5 10 15

Pro Lys Asp Asp Tyr
20

<210> 176
<211> 21
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<220>
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<400> 176

Lys Asp Asx Xaa Gly Ser Glu Val Lys Met Asp Asp Glu Phe Gly Xaa
1 5 10 15

Pro Lys Asp Asp Tyr
20

<210> 177
<211> 21
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<220>
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<222> (16)..(16)
<223> Xaa is episilon-aminocaproic acid

<400> 177

Lys Asp Asx Xaa Gly Ser Glu Val Asn Leu Asp Asp Glu Phe Gly Xaa
1 5 10 15

Pro Lys Asp Asp Tyr
20

<210> 178
<211> 23
<212> PRT
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<222> (18)..(18)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> misc_feature
<222> (20)..(20)
<223> Xaa is episilon-aminocaproic acid

<400> 178

Lys Asp Asx Xaa Gly Gly Val Val Ile Ala Thr Val Ile Val Ile Thr
1 5 10 15

Gly Xaa Pro Lys Asp Asp Tyr
20

<210> 179
<211> 24
<212> PRT
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<220>
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<222> (19)..(19)
<223> Xaa is episilon-aminocaproic acid

<400> 179

Lys Asp Asx Xaa Gly Tyr Gly Val Val Ile Ala Thr Val Ile Val Ile
1 5 10 15

Thr Gly Xaa Pro Lys Asp Asp Tyr
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<210> 180

<211> 18
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<400> 180

Lys Asp Asx Xaa Gly Val Ile Ala Thr Val Ile Gly Xaa Pro Lys Asp
1 5 10 15

Asp Tyr

<210> 181
<211> 18
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<222> (13)..(13)
<223> Xaa is episilon-aminocaproic acid

<400> 181

Lys Asp Asx Xaa Asx Tyr Gly Val Val Ile Ala Gly Xaa Pro Lys Asp
1 5 10 15

Asp Tyr

<210> 182
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<220>
<221> misc_feature
<222> (12)..(13)
<223> Xaa is episilon-aminocaproic acid

<400> 182

Lys Asp Asx Xaa Xaa Gln Gln Leu Leu His Asn Xaa Xaa Pro Lys
1 5 10 15

<210> 183
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<400> 183

Lys Asp Asx Xaa Gly Gln Gln Leu Leu His Asn Gly Xaa Pro Lys
1 5 10 15

<210> 184
<211> 13
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<220>
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<400> 184

Lys Asp Asx Gly Gln Gln Leu Leu His Asn Gly Pro Lys
1 5 10

<210> 185
<211> 11
<212> PRT
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<220>
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<400> 185

Lys Asp Asx Gln Gln Leu Leu His Asn Pro Lys
1 5 10

<210> 186
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<400> 186

Lys Asp Asx Xaa Xaa Ser Ile Gln Tyr Thr Tyr Xaa Xaa Pro Lys
1 5 10 15

<210> 187
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<400> 187

Lys Asp Asx Xaa Gly Ser Ile Gln Tyr Thr Tyr Gly Xaa Pro Lys
1 5 10 15

<210> 188
<211> 13
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<400> 188

Lys Asp Asx Gly Ser Ile Gln Tyr Thr Tyr Gly Pro Lys
1 5 10

<210> 189
<211> 11
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<400> 189

Lys Asp Asx Ser Ile Gln Tyr Thr Tyr Pro Lys
1 5 10

<210> 190
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<400> 190

Lys Asp Asx Xaa Xaa Ser Ser Gln Tyr Ser Asn Xaa Xaa Pro Lys
1 5 10 15

<210> 191
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<400> 191

Lys Asp Asx Xaa Gly Ser Ser Gln Tyr Ser Asn Gly Xaa Pro Lys
1 5 10 15

<210> 192
<211> 13
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<400> 192

Lys Asp Asx Gly Ser Ser Gln Tyr Ser Asn Gly Pro Lys
1 5 10

<210> 193
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<400> 193

Lys Asp Asx Ser Ser Gln Tyr Ser Asn Pro Lys
1 5 10

<210> 194
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<220>
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<222> (12)..(13)
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<400> 194

Lys Asp Asx Xaa Xaa Ser Ser Ile Tyr Ser Gln Xaa Xaa Pro Lys
1 5 10 15

<210> 195
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Lys Asp Asx Xaa Gly Ser Ser Ile Tyr Ser Gln Gly Xaa Pro Lys
1 5 10 15

<210> 196

<211> 13
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<220>
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<400> 196

Lys Asp Asx Gly Ser Ser Ile Tyr Ser Gln Gly Pro Lys
1 5 10

<210> 197
<211> 11
<212> PRT
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<220>
<223> Synthetic peptide.

<400> 197

Lys Asp Asx Ser Ser Ile Tyr Ser Gln Pro Lys
1 5 10

<210> 198
<211> 20
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<220>
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<222> (16)..(16)
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<400> 198

Lys Asp Pro Xaa Gly Ser Glu Val Asn Leu Asp Ala Glu Phe Gly Xaa
1 5 10 15

Pro Lys Gly Tyr
20

<210> 199

<211> 18
<212> PRT
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<220>
<223> Synthetic peptide.

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<220>
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<222> (14)..(14)
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<400> 199

Lys Asp Pro Xaa Gly Leu Glu His Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 200
<211> 18
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<220>
<221> misc_feature
<222> (14)..(14)
<223> Xaa can be any naturally occurring amino acid

<400> 200

Lys Asp Pro Xaa Gly Leu Glu Thr Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 201
<211> 18
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<220>
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<222> (14)..(14)
<223> Xaa is episilon-aminocaproic acid

<400> 201

Lys Asp Pro Xaa Gly Trp Glu His Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 202
<211> 15
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<220>
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<220>
<221> misc_feature
<222> (11)..(11)
<223> Xaa can be any naturally occurring amino acid

<400> 202

Lys Asp Pro Xaa Gly Tyr Val His Asp Gly Xaa Pro Lys Gly Tyr
1 5 10 15

<210> 203
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<220>
<221> misc_feature
<222> (14)..(14)
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<400> 203

Lys Asp Pro Xaa Gly Tyr Val His Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 204
<211> 18
<212> PRT
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<220>
<223> Synthetic peptide.

<220>
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<223> Xaa can be any naturally occurring amino acid

<220>
<221> misc_feature
<222> (14)..(14)
<223> Xaa can be any naturally occurring amino acid

<400> 204

Lys Asp Pro Xaa Gly Tyr Val His Asp Ala Pro Val Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 205
<211> 16

<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide.

<220>
<221> misc_feature
<222> (4)..(4)
<223> Xaa can be any naturally occurring amino acid

<400> 205

Lys Asp Pro Xaa Gly Tyr Val His Asp Ala Pro Val Pro Lys Gly Tyr
1 5 10 15

<210> 206
<211> 16
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<220>
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<220>
<221> misc_feature
<222> (12)..(12)
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<400> 206

Lys Asp Pro Tyr Val His Asp Ala Pro Val Gly Xaa Pro Lys Gly Tyr
1 5 10 15

<210> 207
<211> 14
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<220>
<223> Synthetic peptide.

<220>
<221> misc_feature
<222> (4)..(4)
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<400> 207

Lys Asp Pro Xaa Gly Tyr Val His Asp Ala Pro Lys Gly Tyr
1 5 10

<210> 208
<211> 16
<212> PRT
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<220>
<223> Synthetic peptide.

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<220>
<221> misc_feature
<222> (12)..(12)
<223> Xaa is episilon-aminocaproic acid

<400> 208

Lys Asp Pro Xaa Gly Ile Glu Pro Asp Ser Gly Xaa Pro Lys Gly Tyr
1 5 10 15

<210> 209
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<220>
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<222> (14)..(14)
<223> Xaa is episilon-aminocaproic acid

<400> 209

Lys Asp Pro Xaa Gly Pro Leu Gly Ile Ala Gly Ile Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 210
<211> 19
<212> PRT
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<220>
<223> Synthetic peptide.

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<220>
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<222> (15)..(15)
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<400> 210

Lys Asp Pro Xaa Gly Ser Gln Asn Tyr Pro Ile Val Gln Gly Xaa Pro
1 5 10 15

Lys Gly Tyr

<210> 211
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<220>
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<222> (14)..(14)
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<400> 211

Lys Asp Pro Xaa Gly Glu Asp Val Val Cys Cys Ser Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 212
<211> 8
<212> PRT
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<220>
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<400> 212

Asp Val Val Cys Cys Ser Met Ser
1 5

<210> 213
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<222> (7)..(7)
<223> Xaa is D form Met

<400> 213

Asp Val Val Cys Cys Pro Xaa Ser
1 5

<210> 214
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<220>
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<220>
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<400> 214

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1 5 10

<210> 215
<211> 11
<212> PRT
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<220>
<223> Synthetic peptide. Artificial protease stubstrate.

<400> 215

Asp Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
1 5 10

<210> 216
<211> 12
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<220>
<223> Synthetic peptide.

<400> 216

Pro Asp Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
1 5 10

<210> 217
<211> 12
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide.

<220>
<221> misc_feature
<222> (6)..(6)
<223> Xaa is norleucine

<400> 217

Lys Asp Ala Ile Pro Xaa Ser Ile Pro Lys Gly Tyr
1 5 10

<210> 218
<211> 12
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide.

<220>
<221> misc_feature
<222> (6)..(6)
<223> Xaa is norleucine

<400> 218

Lys Asp Ala Ile Pro Xaa Ser Ile Pro Lys Gly Tyr
1 5 10

<210> 219
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide.

<220>
<221> misc_feature
<222> (5)..(5)
<223> Xaa is norleucine

<400> 219

Asp Ala Ile Pro Xaa Ser Ile Pro Lys Gly Tyr
1 5 10

<210> 220
<211> 14
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide.

<220>
<221> misc_feature
<222> (3)..(3)
<223> Xaa is aminoisobutyric acid

<400> 220

Lys Asp Xaa Asp Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
1 5 10

<210> 221
<211> 14
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide.

<220>
<221> misc_feature
<222> (3)..(3)
<223> Xaa is aminoisobutyric acid

<400> 221

Lys Asp Xaa Asp Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
1 5 10

<210> 222
<211> 14
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide.

<220>
<221> misc_feature
<222> (3)..(3)
<223> Xaa is aminoisobutyric acid

<400> 222

Lys Asp Xaa Asp Glu Val Asn Gly Ile Asp Pro Lys Gly Tyr
1 5 10

<210> 223
<211> 14
<212> PRT
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<220>
<223> Synthetic peptide.

<220>
<221> misc_feature
<222> (3)..(3)
<223> Xaa is aminoisobutyric acid

<400> 223

Lys Asp Xaa Asp Glu Val Asn Gly Ile Asp Pro Lys Gly Tyr
1 5 10

<210> 224
<211> 13

<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide.

<220>
<221> misc_feature
<222> (3)..(3)
<223> Xaa is aminoisobutyric acid

<400> 224

Lys Asp Xaa Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
1 5 10

<210> 225
<211> 13
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide.

<220>
<221> misc_feature
<222> (4)..(4)
<223> Xaa is aminoisobutyric acid

<400> 225

Lys Asp Tyr Xaa Ala Asp Gly Ile Asp Pro Lys Gly Tyr
1 5 10

<210> 226
<211> 16
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide.

<220>
<221> misc_feature
<222> (3)..(3)
<223> Xaa is aminoisobutyric acid

<400> 226

Lys Asp Xaa Gly Asp Glu Val Asp Gly Ile Asp Gly Pro Lys Gly Tyr
1 5 10 15

<210> 227
<211> 18
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide.

<220>
<221> misc_feature
<222> (3)..(3)
<223> Xaa is aminoisobutyric acid

<220>
<221> misc_feature
<222> (4)..(4)
<223> Xaa is episilon-aminocaproic acid

<220>
<221> misc_feature
<222> (14)..(14)
<223> Xaa is episilon-aminocaproic acid

<400> 227

Lys Asp Xaa Xaa Gly Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 228
<211> 18
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide.

<220>
<221> misc_feature
<222> (3)..(3)
<223> Xaa is aminoisobutyric acid

<220>
<221> misc_feature
<222> (4)..(4)
<223> Xaa is episilon-aminocaproic acid

<220>
<221> misc_feature
<222> (14)..(14)

<223> Xaa is episilon-aminocaproic acid

<400> 228

Lys Asp Xaa Xaa Gly Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 229
<211> 13
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide.

<220>
<221> misc_feature
<222> (4)..(4)
<223> Xaa is aminoisobutyric acid

<400> 229

Lys Asp Tyr Xaa Ala Asp Gly Ile Asp Pro Lys Gly Tyr
1 5 10

<210> 230
<211> 13
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide.

<220>
<221> misc_feature
<222> (3)..(3)
<223> Xaa is aminoisobutyric acid

<400> 230

Lys Asp Xaa Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
1 5 10

<210> 231
<211> 12
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide. Artificial protease stubstrate.

<220>
<221> misc_feature
<222> (6)..(6)
<223> Xaa is norleucine

<400> 231

Lys Asp Ala Ile Pro Xaa Ser Ile Pro Lys Gly Tyr
1 5 10

<210> 232
<211> 18
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide. Artificial protease substrate

<220>
<221> misc_feature
<222> (3)..(3)
<223> Xaa is aminoisobutyric acid

<220>
<221> misc_feature
<222> (4)..(4)
<223> Xaa is episilon-aminocaproic acid

<220>
<221> misc_feature
<222> (14)..(14)
<223> Xaa is episilon-aminocaproic acid

<400> 232

Lys Asp Xaa Xaa Gly Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 233
<211> 18
<212> PRT
<213> Artificial

<220>
<223> Synthetic (chemically synthesized) peptide. Artificial protease substrate.

<220>
<221> misc_feature
<222> (3)..(3)
<223> Xaa is aminoisobutyric acid

<220>
<221> misc_feature
<222> (4)..(4)
<223> Xaa is episilon-aminocaproic acid

<220>
<221> misc_feature
<222> (14)..(14)
<223> Xaa is episilon-aminocaproic acid

<400> 233

Lys Asp Xaa Xaa Gly Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 234
<211> 14
<212> PRT
<213> Artificial

<220>
<223> Synthetic (chemically synthesized) peptide. Artificial protease substrate.

<220>
<221> misc_feature
<222> (3)..(3)
<223> Xaa is aminoisobutyric acid

<400> 234

Lys Asp Xaa Asp Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
1 5 10

<210> 235
<211> 8
<212> PRT
<213> Artificial

<220>
<223> Synthetic (chemically synthesized) peptide. Artificial protease substrate.

<400> 235

Gly Asp Glu Val Asp Gly Ile Asp
1 5

<210> 236
<211> 8
<212> PRT
<213> Artificial

<220>
<223> Synthetic (chemically synthesized) peptide. Artificial protease substrate.

<400> 236

Gly Asp Glu Val Asp Gly Ile Asp
1 5

<210> 237
<211> 4
<212> PRT
<213> Artificial

<220>
<223> Synthetic (chemically synthesized) peptide. Artificial protease substrate.

<220>
<221> misc_feature
<222> (3)..(3)
<223> Xaa is alpha-aminoisobutyric acid

<400> 237

Lys Asp Xaa Gly
1

<210> 238
<211> 5
<212> PRT
<213> Artificial

<220>
<223> Synthetic (chemically synthesized) peptide. Artificial protease substrate.

<220>
<221> misc_feature
<222> (3)..(3)
<223> Xaa is alpha-aminoisobutyric acid

<220>
<221> misc_feature
<222> (4)..(4)
<223> Xaa is episilon amino caproic acid

<400> 238

Lys Asp Xaa Xaa Gly
1 5

<210> 239
<211> 4
<212> PRT
<213> Artificial

<220>
<223> Synthetic (chemically synthesized) peptide. Artificial protease substrate.

<220>
<221> misc_feature
<222> (2)..(2)
<223> Xaa is episilon amino caproic acid

<400> 239

Gly Xaa Pro Lys
1

<210> 240
<211> 14
<212> PRT
<213> Artificial

<220>
<223> Synthetic (chemically synthesized) peptide. Artificial protease substrate.

<220>
<221> misc_feature
<222> (3)..(3)
<223> Xaa is aminoisobutyric acid

<400> 240

Lys Asp Xaa Asp Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
1 5 10

<210> 241
<211> 16
<212> PRT
<213> Artificial

<220>
<223> Synthetic (chemically synthesized) peptide. Artificial protease substrate.

<220>
<221> misc_feature
<222> (3)..(3)
<223> Xaa is aminoisobutyric acid

<400> 241

Lys Asp Xaa Gly Asp Glu Val Asp Gly Ile Asp Gly Pro Lys Gly Tyr
1 5 10 15

<210> 242
<211> 18
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide.

<220>
<221> misc_feature
<222> (4)..(4)
<223> Xaa is episilon amino caproic acid

<220>
<221> misc_feature
<222> (14)..(14)
<223> Xaa is episilon amino caproic acid

<400> 242

Lys Asp Asx Xaa Gly Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 243
<211> 10
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide linker.

<400> 243

Asp Gly Ser Gly Gly Gly Glu Asp Glu Lys

1 5 10

<210> 244
<211> 7
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide linker.

<400> 244

Lys Glu Asp Gly Gly Asp Lys
1 5

<210> 245
<211> 8
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide linker.

<400> 245

Asp Gly Ser Gly Glu Asp Glu Lys
1 5

<210> 246
<211> 9
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide linker.

<400> 246

Lys Glu Asp Glu Gly Ser Gly Asp Lys
1 5